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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/256,845	02/24/1999	THEODORE ALLEN HUCK	SF/0024.00	1360

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EXAMINER

NGUYEN, MAIKHANH

ART UNIT	PAPER NUMBER
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2176

DATE MAILED: 01/30/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/256,845

Applicant(s)

HUCK, THEODORE ALLEN

Examiner

Maikhanh Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 24 February 1999.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-45 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-45 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

**DETAILED ACTION**

1. This action is responsive to communications: original application filed 02/24/1999 and IDS filed 09/22/1999.
2. Claims 1-45 are currently pending in this application. Claims 1 and 26 are independent claims.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Krishna et al.** (U.S. 6,055,522 - filed 06/1997) in view of **Kiyono et al.** (U.S. 6,137,483 - filed 11/1996).

**As to independent claim 26**, Krishna teaches a system for executing an application, the system comprising:

- at least one client computer running browser software (the client computer 130 has a browser program 132; col.4, lines 41-52);
- a template repository for storing templates (the template file 112 is stored; col.5, lines 1-12), each template including tokens specifying particular run-time services to be invoked for a given

client operating on a given platform (use URLs contained within the template file 112 to obtain the content and action information from servers 102 and/or 122; col.5, lines 16-30); and  
- a back-end database providing client access to information, in response to client invocation of run-time services (the server 102 then downloads the template file 112 to the browser 132... the Viewer program 114 is also downloaded to the client computer 130; col.5, lines 16-30).

However, Krishna does not explicitly teach a template manager, responsive to requests from a client computer, for parsing at least one template for determining particular run-time services to be invoked for a given client.

Kiyono teaches a template manager, responsive to requests from a client computer, for parsing at least one template for determining particular run-time services to be invoked for a given client (the template manager manages a template describing therein a logic structure, a layout structure, and a physical operation common to a diversity of multimedia content; Abstract, and col.4, lines 38-41; col.6, lines 21-25).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna because it would have provided the capability for handling both regularity and diversification of multimedia documents.

**As to dependent claim 27,** Krishna teaches the at least one client computer comprises a personal computer connected to a network (the server computer 102 communicates with other computers over a network; col.4, lines 34-39).

**As to dependent claim 28**, Krishna teaches the network includes connectivity to the Internet (communicates with other computers over a network such as the Internet 120; col.4, lines 34-39).

**As to dependent claim 29**, Krishna teaches the browser software includes Internet browser software for viewing Hypertext Markup Language documents (display the Web page; col.5, lines 16-30).

**As to dependent claim 30**, Krishna teaches at least some of the templates comprise at least page description language template (the template file consists of a specification for a Web page in terms of object content and actions to be taken on or between such objects; col.2, lines 62-65).

**As to dependent claim 31**, Krishna teaches the at least one page description language template comprises a Hypertext Markup Language document (Hypertext Markup Language pages; col.3, lines 9-17).

**As to dependent claim 32**, it would have been obvious that a Standard Generalized Markup Language document is used widely to manage large documents that are subject to frequent revisions and need to be printed in different formats.

**As to dependent claim 33**, Krishna teaches the tokens are embedded in the at least one template using user-defined tags (HTML file tag sets; col.7, lines 20-25).

**As to dependent claim 34**, Krishna teaches run-time services that are actually invoked is determined based, at least in part, on which platform a given client executes (the client computer... running within the Windows 95 operating system; col.4, lines 41-52).

**As to dependent claim 35**, Krishna teaches each token may be resolved into a request for a specific run-time service (client 130 first makes a request...downloaded to the client computer 130; col.5, lines 162-28).

**As to dependent claim 36**, Kiyono teaches the template manager stores parsed templates in a template cache, so that each template need only be parsed once (the template operating means extracts a template stored...combines the extracted template; col.7, lines 37-56).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna because it would have provided Krishna's system with the enhanced capability of improving performance.

**As to dependent claim 37**, Kiyono teaches the parsed templates are maintained on a persistent storage, so that the parsed templates are available from one application execution session to another (a template stored in the template managing means; col.5, lines 1-10).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna because it would have provided Krishna's system with the enhanced capability of improving performance.

**As to dependent claim 38**, Kiyono teaches any parsed templates are occasionally flushed, so that the system is forced to again parse the at least one template (the restrictive condition checking means 27 checks...condition described in the template; col.6, lines 48-65).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna because it would have provided the capability for handling templates.

**As to dependent claim 39**, Krishna teaches the run-time services of the system include providing access to information from the back-end database (obtain the content and action information from servers; col.5, lines 25-30).

**As to dependent claim 40**, Kiyono teaches the back-end database comprises an SQL database system that retrieves information in response to SQL queries (a set of items is handled as a logic structure and an operation for searching an item; col.3, lines 55-65).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna because it would have provided the capability for searching an item satisfying a search condition.

**As to dependent claim 41**, Krishna teaches at least one template comprises at least one read-only template (a downloadable Viewer file 114; col.5, lines 13-15).

**As to dependent claim 42**, Krishna teaches at least one template is loaded by browser software running at the particular client (if the template file 112... may be viewed by a browser; col.6, lines 7-11).

**As to dependent claim 43**, Krishna teaches the at least one template comprises an input form having a platform-specific presentation when rendered at a given client (the template file also includes a set of actions to be taken on or between the objects in response to user inputs; col.3, lines 6-9).

**As to dependent claim 44**, Krishna teaches the requests include opening a communication socket at a given client (the client 130 first makes a request to the server 102; col.5, lines 16-20).

**As to dependent claim 45**, Krishna teaches run-time services are invoked is determined based, at least in part, on a specific client session that is executing (a template file 112 specifies... specified by URLs...located content files; col.5, lines 47-57).

**As to independent claim 1** Krishna teaches a method for creating and deploying an application in a computing system, the method comprising:



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- creating at least one template (template files 112; col.4, lines 30--32) having references to specific functionality that is to be invoked at a given client (the content may actually be imbedded in the template file or may simply be a reference to where the content can be found, such as via a Universal Resource Locator; col.3, lines 1-17);

- executing the application at a particular client (the client computer...running within the Window 95; col.5, lines 40-52), including substeps of:

- receiving a run-time request from the particular client to load the at least one template (client 130 first makes a request ... then downloads the template file 112 to the browser 132; col.5, lines 16-31),
- determining from the dictionary and from the references of the at least one template any specific functionality that is to be invoked for the particular client (the template file consists of a specification for a Web page in terms of object content and actions to be taken on or between such objects.; col.2, lines 62-65), and
- invoking specific functionality for the particular client by invoking corresponding run-time handlers for the determined references (operations may be performed at the time that a user... requests access to the template 112 file... at scheduled intervals; col.5, lines 25-50).

However, Krishna does not explicitly teach registering the references of the at least one template with a dictionary.

Kiyono teaches registering the references of the at least one template with a dictionary (the logic structure in the template is synthesized with the selected material information by the logic structure synthesizing means; col.7, lines 37-56).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna because it would have provided the capability for creating a specific multimedia document.

**As to dependent claim 2**, Krishna teaches the at least one template comprises at least one page description language template (the template file consists of a specification for a Web page in terms of object content and actions to be taken on or between such objects; col.2, lines 62-65).

**As to dependent claim 3**, Krishna teaches the at least page description language template comprises at least one Hypertext Markup Language document (display the Web page; col.5, lines 16-30).

**As to dependent claim 4**, it would have been obvious that a Standard Generalized Markup Language document is used widely to manage large documents that are subject to frequent revisions and need to be printed in different formats.

**As to dependent claim 5**, Krishna teaches the references are embedded in the at least one template using user-defined (HTML file tag sets; col.7, lines 20-25).

As to dependent claim 6, Krishna teaches which specific functionality that is actually invoked is determined based, at least in part, on which platform a given client executes (the client computer... running within the Windows 95 operating system; col.4, lines 41-52).

As to dependent claim 7, Kiyono teaches invoking a template manager for parsing the at least one template, for determining references embedded in the at least one template (the template manager manages a template describing therein a logic structure, a layout structure, and a physical operation common to a diversity of multimedia content; Abstract, and col.4, lines 38-41 & col.6, lines 21-25).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna because it would have provided the capability for handling templates.

As to dependent claim 8, Kiyono teaches the references comprise tokens that are parsed by the template manager (the template manager manages a template describing therein a logic structure, a layout structure, and a physical operation common to a diversity of multimedia content; Abstract, and col.4, lines 38-41 & col.6, lines 21-25).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna because it would have provided the capability for handling both regularity and diversification of multimedia documents.

As to **dependent claim 9**, Krishna teaches wherein each token may be resolved into a request for a specific run-time service (client 130 first makes a request...downloaded to the client computer 130; col.5, lines 16-28).

As to **dependent claim 10**, Kiyono teaches the template manager stores parsed templates in a template cache, so that each template need only be parsed once (the template operating means extracts a template stored...combines the extracted template; col.7, lines 37-56).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna because it would have provided Krishna's system with the enhanced capability of improving performance.

As to **dependent claim 11**, Kiyono teaches the parsed templates are maintained on a persistent storage, so that the parsed templates are available from one application execution session to another (a template stored in the template managing means; col.6, lines 48-65).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna because it would have provided Krishna's system with the enhanced capability of improving performance.

As to **dependent claim 12**, Kiyono teaches any parsed templates are flushed, so that the system is forced to again parse the at least one template (the restrictive condition checking means 27 checks...condition described in the template; col.6, lines 48-65).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna because it would have provided the capability for handling templates.

**As to dependent claim 13,** Krishna teaches the run-time services of the system include providing access to information from a back-end database (obtain the content and action information from servers; col.5, lines 25-30).

**As to dependent claim 14,** Kiyono teaches the back-end database comprises an SQL database system that retrieves information in response to SQL queries (a set of items is handled as a logic structure and an operation for searching an item; col.3, lines 55-65).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna because it would have provided the capability for searching an item satisfying a search condition from the set of items.

**As to dependent claim 15,** Krishna teaches the at least one template comprises at least one read-only template (a downloadable Viewer file 114; col.5, lines 13-15).

**As to dependent claim 16,** Krishna teaches the at least one template is loaded by browser software running at the particular client (if the template file 112... may be viewed by a browser; col.6, lines 7-11).

As to **dependent claim 17**, Krishna teaches the at least one template comprises an input form having a platform-specific presentation when rendered at a given client (the template file also includes a set of actions to be taken on or between the objects in response to user inputs; col.3, lines 6-9).

As to **dependent claim 18**, Krishna teaches the run-time request includes opening a communication socket at the particular client (the client 130 first makes a request to the server 102; col.5, lines 16-20).

As to **dependent claim 19**, Krishna teaches wherein the specific functionality invoked is based, at least in part, on a specific client session that is executing (a template file 112 specifies... specified by URLs...located content files; col.5, lines 47-57).

As to **dependent claim 20**, Krishna teaches the application comprises a single code base application that is deployed on multiple platforms (having content files 124 stored therein or client computers 130 and 140; col.4, lines 38-40).

As to **dependent claim 21**, Krishna teaches wherein new functionality is added to the application by modifying the at least one template, so that the new functionality may be added without recompiling the application (the template file 112 contains actions which allow the user to change the resulting state of the display these include objects in the template file 112; col.6, lines 52-61).

**As to dependent claim 22**, Krishna teaches the references comprise tokens specifying programming constructs (a set of links is also produced which specify how transitions between such representations should occur; col.2, lines 59-61).

**As to dependent claim 23**, Kiyono teaches the programming constructs include conditional logic statements (a logic structure and an operation for searching; col.3, lines 55-65).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna because it would have provided the capability for searching an item satisfying a search condition.

**As to dependent claim 24**, Kiyono teaches the conditional logic statements include "if" statements (the operation of searching an item satisfying a searching condition; col.8, lines 30-45).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna because it would have provided the capability for searching an item satisfying a search condition.

**As to dependent claim 25**, Kiyono teaches the conditional logic statements include "for" loops (the operation of searching an item satisfying a searching condition; col.8, lines 31-40).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna because it would have provided the capability for searching an item satisfying a search condition.

### ***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Yasuda et al.	U.S Patent No. 5,040,213	issued dated: Aug. 13, 1991
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Lee et al.	U.S Patent No. 6,336,137	issued dated: Jan. 1, 2002
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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maikhanh Nguyen whose telephone number is (703) 306-0092.

The examiner can normally be reached on Monday - Friday from 9:00am – 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather R Herndon can be reached on (703) 308-5186. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-5403 for regular communications and (703) 308-5403 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-9600.

### **Contact Information:**

**Any response to this action should be mailed to:**



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Washington, D.C. 20231

Or fax to:

AFTER-FINAL faxes must be signed and sent to (703) 746-7238.


OFFICIAL faxes must be signed and sent to (703) 746-7239.

NON OFFICIAL faxes should be sent to (703) 746-7240.

All OFFICIAL faxes will be handled and entered by the docketing personnel. The date of entry will correspond to the actual FAX reception date unless that date is a Saturday, Sunday, or a Federal Holiday within the District of Columbia, in which case the official date of receipt will be the next business day. The application file will be promptly forwarded to the Examiner unless the application file must be sent to another area of the Office, e.g., Finance Division for fee charging, etc.

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist). All hand-delivered responses will be handled and entered by the docketing personnel. Please do not hand deliver responses directly to the Examiner.

Maikhanh Nguyen  
January 24, 2002

  
HEATHER R. HERNDON  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100